

ARKANSAS STATE HIGHWAY AND TRANSPORTATION DEPARTMENT

LITTLE ROCK, ARKANSAS

SEPTEMBER 24, 1993

MAINTENANCE MEMORANDUM NO. 93-12

TO: DISTRICT ENGINEERS, ASSISTANT DISTRICT ENGINEERS,
MAINTENANCE SUPERINTENDENTS, JOB SUPERINTENDENTS

SUBJECT: FAST SETTING CEMENT

This Maintenance Memorandum supersedes Maintenance Memorandum No. 89-8.

The mix design for bridge deck patching shall be 1:2:2; 1 part cement, 2 parts sand, and 2 parts coarse aggregate by weight.

The fast setting cement presently in use is Pyrament Blended Cement (PBC), which requires mixing as described: At the beginning of the mixing time add 1 -1/3 gallons of water per 50 pound bag of PBC - NO MORE WATER should be added after that. If the sand is wet, some of the water should be cut back to account for the extra water in the sand. In the first few minutes of mixing, the batch may seem too dry but as mixing proceeds the batch will break and go to a good plastic consistency. The batch should be mixed from 7 to 9 minutes in the mixer.

Prior to placement of the concrete, the hole to be patched should be well wetted, then all standing water removed just before placement. The material should be worked in around the edges and corners and screeded off. Excessive working of the surface should be avoided. Finishing of the surface should be accomplished without adding water. Cure using curing compound or a visqueen cover.

No additives (retarder or accelerator) are to be used with this product.

A. L. Holmes
State Construction and
Maintenance Engineer

cc: Director
Assistant Director
Chief Engineer
Assistant Chief Engineers
Materials Division